 **Name:……………….………..…………………………….**

**Unit 1 Math Methods Homework 1 Solutions Due: 16/03/2012**

1. 1. **Rewrite in terms of**
   2. **Factorize the new expression in terms of**
   3. **Substitute back for**
   4. **Expand the expression from (a) and write it as a trinomial quadratic expression, i.e. in the form.**
   5. **Factorise the constant,that you found in part (d).**
   6. **Add the two factors. What do you notice? Use this information to factorise the whole expression. You should get the same answer as you did in part (c).**

**a.**

**b.**

**c. Substitute**

**d.**

**e.**

**f.**

1. **Factorise the following.**

**a.**

**b.**

**c.**

**d. D.O.T.S**

1. **A square measuring cm in side length has cm added to its length and cm added to its width. The resulting rectangle has area . Find the values of and , correct to two decimal places.**